

Docket No.: 645-167

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT OPERATIONS

re Application of:)
)
Naoyuki Goto) Group Art Unit: --
)
Serial No.: 10/773,934) Examiner: --
)
Filed: February 6, 2004)

For: **ULTRA LOW EXPANSION TRANSPARENT GLASS-CERAMICS**

New York, NY 10036
May 5, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

US 5,591,682	Discloses low expansion transparent glass-ceramic.
US 4,851,372	Discloses glass-ceramic with specific thermal expansion behavior.
US 6,387,509	Discloses glass-ceramic substrate for a magnetic information recording medium.
US 6,197,710	Discloses luminous glass ceramics.
US 5,336,643	Discloses low expansion transparent crystallized glass-ceramic.
US 5,972,816	Discloses glass-ceramic substrate for a magnetic information storage.
US 6,001,445	Discloses simulation disk for measuring flying height of magnetic head.
US 2003/0099062	Discloses holding member for information storage disk and information storage disk drive device.
US 4,851,372	Discloses glass-ceramic with specific thermal expansion behavior.

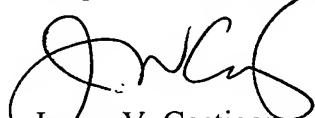
US 2002/0022564 Discloses low expansion transparent glass-ceramic, glass-ceramic substrate and optical waveguide element.

JP 11-292616 Discloses composite glass ceramic and its production.

JP 2003-192385 Discloses glass-ceramic and temperature-compensated member.

JP 2001-150452 Discloses mold for molding resin and method of manufacturing the same.

Respectfully submitted,



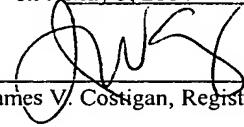
James V. Costigan
Registration No. 25,669

HEDMAN & COSTIGAN, P.C.
1185 Avenue of the Americas
New York, NY 10036-2646
(212) 302-8989

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on : May 5, 2004



James V. Costigan, Registration No. 25,669



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/773,934
Filing Date	February 6, 2004
First Named Inventor	Naoyuki Goto
Art Unit	--
Examiner Name	--

Attorney Docket Number 645-167

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)			
AA	US-	5,591,682	1/7/1997	Goto	
AB	US-	4,851,372	7/25/1989	Lindig, et al	
AC	US-	6,387,509	5/14/2002	Goto, et al	
AD	US-	6,197,710	3/6/2001	Ohara, et al	
AE	US-	5,336,643	8/9/1994	Goto, et al	
AF	US-	5,972,816	10/26/1999	Goto	
AG	US-	6,001,445	12/14/1999	Itoh, et al	
AH	US-	2003/0099062	5/29/2003	Kataoka, et al	
AI	US-	4,851,372	7/25/1989	Lindig, et al	
AJ	US-	2002-0022564	11/21/2002	Minamikawa, et al	
AK	US-				
AL	US-				
AM	US-				
AN	US-				
AO	US-				
AP	US-				
AQ	US-				
AR	US-				
AS	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ "Number ⁴ "Kind Code ⁵ (<i>if known</i>)				
AT		JP 11-292616	10/26/1999			
AU		JP 2003-192385	7/9/2003			
AV		JP 2001-150452	6/5/2001			
AW						
AX						
AY						

Examiner Signature		Date Considered
--------------------	--	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document with the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.